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PROCEEDINGS OF SCIENTIFIC SOCIETIES.

The American Society of Naturalists met in Baltimore at the Johns Hopkins University on Dec. 27th and 28th. The following were the officers: President, C. S. Minot; Vice-Presidents, William H. Dall, William Libbey, Jr., S. I. Smith; Secretary, W. A. Setchell; Treasurer, E. G. Gardiner; Committee at Large, H. F. Osborn, C. W. Stiles.

The Program was as follows: Thursday, December 27th, 2 P. M. Meeting in the Physical Laboratory for the following General Business: I. Reports of committees. II. Special reports. III. Recommendation of new members. IV. Discussion. Subject: Environment in its Influence upon the Successive Stages of Development and as a Cause of Variation. This was conducted by Prof. H. F. Osborn, Columbia College; Prof. E. B. Wilson, Columbia College; Prof. W. K. Brooks, Johns Hopkins University; Doctor C. Hart Merriam, U. S. Dept. of Agriculture. Thursday, 8 P. M., Illustrated lecture in Levering Hall, by Professor William Libbey, Jr., of Princeton University. Subject: Two Months in Greenland. Thursday, 9 P. M., The Johns Hopkins University received the members of the Society and their friends at a social assembly in McCoy Hall. Friday, December 28th, 9, A. M., General Session. I. Election of new members. II. Election of officers for 1895. III. Other business. Friday, 10 A. M., I. President's Address. Subject: The Work of Naturalist in the World, Prof. C. S. Minot, Harvard University. II. Annual Discussion. Subject: Laboratory Teaching of Large Classes. I. Introductory, Prof. Alpheus Hyatt, Boston Society of Natural History. 2. Zoological, Prof. H. C. Bumpus, Brown University. 3. Botanical, Prof. W. F. Ganong, Smith College. 4. General Discussion. Friday, 7.30 P. M., Annual Dinner of the Society of Naturalists and affiliated societies at The Stafford.

Officers for 1895 are President, Edward D. Cope, University of Pennsylvania; Vice-Presidents, Prof. William Libbey, Jr., Princeton; Prof. W. G. Farlow, Harvard; Dr. C. O. Whitman, University of Chicago; Secretary, Prof. H. C. Bumpus, Brown University; Treasurer, Dr. Edward G. Gardiner, Boston; Committee at large, Prof. Edmund B. Wilson, Columbia; Prof. W. H. Howell, Johns Hopkins.

The followed new members were elected: Dr. William Ashmead, United States Department of Agriculture; Dr. Severance Burrage,

Massachusetts Institute of Technology; Prof. H. E. Chapin, University of Ohio; Dr. J. E. Humphrey, Johns Hopkins University; Prof. Maynard Metcalf, Woman's College of Baltimore; Dr. W. H. C. Pynchon, Trinity College, and Dr. Norman Wyld, formerly assistant to Prof. Lloyd Morgan, in Bristol, England.

The American Morphological Society, met Dec. 27th and 28th at the Johns Hopkins University in Baltimore, Md. The following papers were read: Dr. C. W. Stiles, Larval Stages of an Anoplocephaline Cestode; Dr. W. A. Locy, Primitive Metamerism in Selachians, Amphibians and Birds; Dr. W. A. Locy, Note on the Homologies of the Pineal Sense Organ; Dr. E. B. Wilson, The Quadrille of the Centrosomes in the Echinoderm Egg; A second contribution to Biological Mythology; Dr. C. S. Minot, The Olfactory Lobe; Dr. C. S. Minot, The fundamental Difference between Animals and Plants; Dr. E. B. Wilson, The Polarity of the Egg in Toxopnenstes; Dr. A. Graf, The origin of pigment and the causes of the presence of patterns in Leeches; Dr. H. T. Fernald, Homoplasy as a Factor in Morphology; Mr. Seitaró Goto, The Anatomy of some Parts of Ectoparasitic Trematodes; Mr. A. P. Mathews, On the Morphological Changes in the Pancreatic Cell corresponding with Functional Activity; Mr. F. C. Kenyon, Anatomy and Relationships of Pauropida (read by Dr J. S. Kingsley): Dr. F. H. Herrick, Notes on the Biology of the Lobster; Prof. A. Hyatt, Remarks in the Bioplastology of Pecten; Dr. R. G. Harrison, Muscle Buds in the Pectoral fins of Teleosts; Dr. T. H. Morgan, The Minimum Size of Echinoderm Larvæ (read by Dr, E. A. Andrew).

The officers of the American Morphological Society for 1895 are: President, Dr. E. B. Wilson; Vice-President, Prof. W. B. Scott; Secretary and Treasurer, Dr. G. H. Parker; Members of Executive Committee from Society at large, Drs. T. H. Morgan and S. Watase.

American Physiological Society.—Seventh Annual Meeting, Baltimore, Md,, 1894 Thursday, December 27th, 9.30 A. M. The following general business was transacted. I. With regard to representation of this Society on a committee to decide the place of meeting of the Societies of Naturalists, Morphologists, Anatomists, and Physiologists, Pres.. H. P. Bowditch; II. Changes in the Tariff, E. T. Reichert, and J. W. Warren; III. The Teaching of Physiology in the Schools; W. H. Howell, and F. S. Lee; IV. A Physiological Journal, F. S. Lee, W. T. Porter, and H. H. Donaldson; III. A Subject for Discussion at the next Congress of American Physicians and Surgeons, The Council.

The following papers were read: G. M. Sternberg, "Explanation of Natural Immunity;" W. T. Porter, "Inhibition Hypothesis in the Physiology of Respiration;" S. J. Meltzer, "On Cardio-oesophagograms;" Mrs. C. L. Franklin, (Introduced by H. P. Bowditch), The Normal Defect of Vision in the Fovea;" T. E. Shields, (Introduced by W. H. Howell), "Demonstration of an Apparatus for the Plethysmographic Study of Odors, with Reports of Results;" W. T. Porter, "Hemisections of the Spinal Cord above the Phrenic Nuclei do not inhibit Thoracic Respiration;" G. T. Kemp, "Demonstration of a New Gas Pump for the Extraction of Blood-Gases;" Prof. H. A. Rowland, At the Physical Laboratory, "Exhibition of some New Forms of Galvanometers suitable for Physiological Use, with Remarks upon the Same."

Friday, December 28th, 9.30 A. M. J. G. Curtis, "Galen's Technical Treatise upon Practical Anatomy and Experimental Physiology;" G. Carl Huber, (Introduced by W. P. Lombard), "A Study of the Operative Treatment for Loss of Nerve Substance in Peripheral Nerves;" Franz Pfaff, (Introduced by H. P. Bowditch), "The active principle of Rhus toxicodendron and Rhus venenata;" F. S. Lee, "Further Experiments Upon Equilibrium in Fishes;" F. S. Lee, "Equilibrium in the Ctenophora;" G. P. Clark, (Introduced by F. S. Lee), "Equilibrium in the Crustacea;" W. T. Porter, "Acuteness of Vision in St. Louis Public School Children;" W. T. Porter, "The Weight of Dark-haired and Fair-haired Girls;" C. F. H. Hodge, (For Mr. C. C. Stewart), "A Means of Recording Daily Activity of Animals and the Influence upon it of Food and Alcohol;" C. F. Hodge, "The Influence of low Percentage of Alcohol Upon the Growth of Yeast." Visit to the New Anatomical and Histological Laboratories, the Hospital, etc. Election of New Members and other Business, at the New Anatomical Building. Reading of Papers and Demonstrations. J. J. Abel, "On the Occurrence of Diaethyl Sulphide in the Urine of the Dog, with a Demonstration of Reaction for the Detection of Alkylsulphides of the Series, $(C_N H_{2N} + 1)_2S$." J. J. Abel and T. B. Aldrich, "On the use of Trichloride of Acetonic Acid as an Anæsthetic for the Laboratory, with Some Account of its Fate;" J. J. Abel and A. C. Crawford, "Demonstration of Instances of Experimental Cachexia Thyreopriva in Dogs;" T. W. Mills, "Cortex of the Brain; (a) Localization; (b) Development of."

Council elected for 1894–95. H. T. Bowditch, President; R. H. Chittenden, W. H. Howell, W. T. Lombard; F. S. Lee, Secretary and Treasurer.

The Association of American Anatomists met in New York Dec. 28th and 29th, at the college of Physicians and Surgeons, under the following officers: Dr. Thomas Dwight, of Boston, Mass., President; Dr. B. G. Wilder, of Ithaca, N. Y., 1st Vice-President; Dr. F. J. Shepherd, of Montreal, Canada, 2d Vice-President; Dr. D. S. Lamb, of Washington, D. C., Secretary and Treasurer.

The following Papers and Discussions came before the Society. Friday, December 28th.—"The best arrangement of topics in a two years' course of Anatomy," by Dr. F. H. Gerrish, Bowdoin College. "History of the development of dentine," by Dr. Carl Heitzmann, New York City. "On the value of the nasal and orbital indices in anthropology," by Dr. Harrison Allen, University of Pennsylvania. "Loose characterization of vertebrate groups in standard works", by Dr. Burt G. Wilder, Cornell University. "The comparative anatomy of the cerebral circulation, with an exhibition of a series of anomalies of the circle of Willis" by Dr. Joseph Leidy, Jr., University of Pennsylvania. "Convolutions of the hemispheres of Elephas indicus;" by Dr. Geo. S. Huntington, College of Physicians and Surgeons, New York City. "Some muscular variations of the shoulder girdle and upper extremity, with especial reference to reversions in this region," by Dr. Huntington. Saturday, December 29th.—"On the significance of anomalies." Discussion opened by Dr. Thomas Dwight, Harvard Medical School. Followed by Dr. Frank Baker, University of Georgetown, D. C.; Dr. F. J. Shepherd, McGill University, Montreal; Dr. Burt G. Wilder, "Some anomalies of the brain"; Dr. Geo. S. Huntington; "Muscle variations in the Negro."

Officers for the years 1893–'94: Dr. Thomas Dwight, of Boston, Mass., President; Dr. B. G. Wilder, of Ithaca, N. Y., 1st Vice-President; Dr. F. J. Shepherd, of Montreal, Canada, 2d Vice-President; Dr. D. S. Lamb, of Washington, D. C., Secretary and Treasurer. Delegate to American Congress of Physicians and Surgeons: Prof. C. L. Herrick, of Granville, Ohio; Alternate: Dr. D. K. Shute, of Washington, D. C. Executive Committee: Dr. F. H. Gerrish, of Portland, Me.; Dr. Theodore N. Gill, of Washington, D. C.; Dr. Geo. L. Huntington, of N. Y. City and the President and Secretary, *ex officio*. Committee on Anatomical Nomenclature: Dr. Harrison Allen, of Philadelphia; Dr. Frank Baker, of Washington; Dr. Thomas Dwight, of Boston; Dr. Gerrish, of Portland; Dr. Burt G. Wilder, of Ithaca, Secretary.

Ohio Academy of Science.—This body met at Columbus, Dec. 27–8, 1894. The Officers were: President, F. M. Welester; Secretary; W. G. Tight. The following Papers were presented. 1. Preliminary List of Birds of Champaign County, J. A. Nelson. 2. Catalogue of the Odonata of Ohio, Part I, D. S. Kellicott. 3. Interesting and Little Mollusca of Ohio, V. Sterki. 4. Some New Points in the Structure of Dinichthys and Titanichthys, Albert A. Wright. 5. Additions to List of Coleoptera of Columbiana County, N. M. Hill. 6. Notes on the Bald Eagle, E. L. Mosely. 7. The Oaks of Ross County, Jane F. Winn. 8. An Improved Method of Determining the Laws of Acceleration in a Moving Body, Chas. E. Albright. 9. The Shaw Mastodon, Seth Hayes. 10. Preliminary Notes on the Distribution of Pronuba yuccasella, E. E. Bogue. 11. Glacial Till at Oberlin, Ohio, Lynds Jones. 12. On the Hitherto Unrecognized Horizon of Coal in Northeastern Ohio, E. W. Claypole. 13. A New Head of a Large Placoderm, Wm. Clark. 14. Grasses of Ashtabula County, Part I, Sara F. Goodrich. 15. Occurrence of the Gray King Bird in Ohio, Ernest W. Vickers. 16. Notes on the Variation of Liriodendron Leaves, Mrs. W. A. Kellerman. 17. Additions to the Bibliography of Ohio Botany, W. A. Kellerman. 18. On the Salina Group in Northeastern Ohio, E. W. Claypole. 19. Contributions to the Histology of the Order Nymphæaceæ as Represented in Ohio, E. M. Wilson. 20. Distribution of the Cranial Nerves of Cryptobranchus, J. H. McGregor. 21. A New Form of Ciliate Infusoria, V. Sterki. 22. Attractions for a Scientist in the Vicinity of Sandusky, E. L. Mosely. 23. An Other Miami Valley Skeleton, Including a Description of two rare Harpoons Found in Hamilton County, Sept. 22, 1894, Seth Hayes. 24. Notes on the Incubation of Turtle's Eggs, E. E. Bogue. 25. Five Birds New to Lorain County, Lynds Jones. 26. Unusual Nesting Site of the Pewee, E. W. Vickers. 27. A State Herbarium, W. A. Kellerman. 28. Some Notes on Collodion Imbedding, E. M. Wilcox. 29. Physalis viscosa, a Food Plant for Gelechia nigrimaculella, W. B. Hall. 30. Hygenic Dangers of Modern Civilization, E. L. Mosely. 31. Oligo-Nunk, Seth Hayes. 32. Insects New and Interesting at Oberlin, Ohio, Lynds Jones. 33. Summering of the Lark Sparrows in Mahoning Co. E. W. Vickers. 34. New Localities and New Plants for the Ohio Flora, W. A. Kellerman. 35. Notes on Sorex platyrhinus, E. W. Vickers. 36. Report on the Flora of Hocking Co., W. A. and K. F. Kellerman. 37. First List of Plants of Cedar Swamp, W. A. Kellerman and E. M. Wilcox. 38. The Development of the Watersheds of Ohio, W. G. Tight. 39. Entomological Notes for 1894 in Summit

County, E. W. Claypole. 40. Cetraria islandica. A Survivor of Glacial Times in Ohio, Edo Claassen. 41. The Phaenerogamic Exogenous Flora of Cuyahoga Co., Carl Krebs. 42. On a New Placoderm from the Ohio Shales, E. W. Claypole. 43. List of Birds Observed in Wayne County, H. C. Oberholser. 44. The Poisonous Plants of Ohio, Aug. D. Selby. 45. Two Cases of Buried Channels in the Licking River Valley, W. G. Tight. 46. The Pre-Glacial Channels of Paint Creek and North Fork, Gerard Fork. 47. Notes on Some New Introduced Plants, Aug. D. Seley. 48. List of Monocotyledonous Plants of Cuyahoga County, Edo Claassen. 49. Further Contribution upon Ohio Erysipheæ, Aug. D. Selby. 50. List of Cryptogamous Plants of Cuyahoga County, Edo Claassen. 51. The Department of Ceramics and Clay Working, and its Scope, E. Orton, Jr. 52. List of Monocotyledonous and cryptogamous Plants, being additions to the Lists 1 and 2 of the Nine Counties of Ohio, Edo Claassen. 53. Vitality of Vegetable Seeds, William R. Lazenby.

The officers of the meeting were: F. M. Webster, President, Wooster, Ohio. W. G. Tight, Secretary, Granville, Ohio.

The Indiana Academy of Science met at Indianapolis, December 27 and 28, 1894. The following were the Officers and Ex-Officio Executive Committee: W. A. Noyes, President; A. W. Butler, Vice-President; C. A. Waldo, Secretary; W. W. Norman, Assistant Secretary; W. P. Shannon, Treasurer; D. S. Jordan, T. C. Mendenhall, J. M. Coulter, O. P. Hay, J. P. John, J. L. Campbell, J. C. Branner, J. C. Arthur, Ex-Presidents.

The following Papers were read. Address by the Retiring President, Professor W. A. Noyes. 1. Some facts in the distribution of Gleditschia triacanthos and other trees Ernest Walker. 2. Propagation and protection of game and fish, I. W. Sharp. 3. Anthropology; the study of man, Amos. W. Bulter. 4. A new biological station and its aim, C. H. Eigenmann. 5. Transmission of impressions in spinal cord, G. A. Talbert. 6. Does high tension of electric current destroy life? J. L. Campbell. 7. The Purdue enigneering laboratory since the restoration, Wm. F. M. Goss. 8. Method of determining sewage pollution of rivers, Chas. C. Brown. 9. Psychological laboratory of Indiana Univ., W. L. Bryan. 10. Interesting deposit of alumina oxyhydrate, G. W. Benton. 11. Observations on glacial drift of Jasper Co., A. H. Purdue. 12. Concerning a burial mound recently opened in Randolph county, Joseph Moore. 13. Reversal of current in the Toepler Holtz electrical machine, J. L. Campbell. 14. A Florida shell mound U.

F. Click. 15. Note on rock flexure, Edward M. Kindle. 16. The alternate-current transformer with condenser in one or both circuits, Thomas Gray. 17. Elastic fatigue of wires, C. Leo Mees. 18. A warped surface of universal elliptic eccentricity, C. A. Waldo. 19. Accurate measurements of surface tension, A. L. Foley. 20. Effect of the gaseous medium on the electrochemical equivalent of metals, C. L. Mees. 21. Some new laboratory applicances in chemistry, H. A Huston. 22. Volumetric determination of phosphorus in steel, W. A. Noyes and J. S. Royse. 23. Action of ammonia upon dextrose, W. E. Stone. 24. Action of zinc ethyl on ferric chloride and ferric bromide, H. H. Ballard. 25. The sugar of the century plant, W. E. Stone and Dumont Lotz. 26. Camphoric acid, W. A. Noyes. 27. Action of potassium sulfhydrate upon certain aromatic chlorides, Walter Jones and F. C. Scheuch. 28. A new phosphate, H. A. Houston. 29. Dip of the Keokuk rocks at Bloomington, Ind., Edward M. Kindle. 30. Structural geologic work of J. H. Means in Arkansas, J. C. Branner. 31. Wave marks on Cincinnati limestone, W. P. Shannon. 32. Correlation of Silurian sections in eastern Indiana, V. F. Marsters and E. M. Kindle. 33. Some new Indiana fossils, C. E. Newlin. 34. Extinct fauna of Lake county, T. H. Ball. 35. Strepomatidæ of the Falls of the Ohio, with their synonymy, R. Ellsworth Call. 36. Streams of southeastern Indiana, with list, H. M. Stoops. 37. The swamps of Franklin county, H. M. Stoops. 38. Water cultures of indigenous plants, D. T. MacDougal. 39. Working shelves for botanical laboratory, Katherine E. Golden. 40. New apparatus for vegetable physiology, J. C. Arthur. 41. Collections of plants made during the year, M. B. Thomas. 42. The flowering plants of Wabash county, A. B. Ulrey and J. N. Jenkins. 43. Revision of the phanerogamic flora of the state, Stanley Coulter. 44. Report of progress of the botanical division of the State Biological Survey, L. M. Underwood. 45. Value of seed characters in determining specific rank in the genus Plantago, Alida M. Cunningham. 46. Additions to the fish fauna of Wabash county, W. O. Wallace. 47. Notes on the reptilian fauna of Vigo, W. S. Blatchley. 48. Preliminary list of birds of Brown co., Edward M. Kindle. 49. The birds of 1893, Amos W. Butler. 50. Some notes on the blind animals of Mammoth Cave, with exhibition of specimens, R. Ellsworth Call. 51. The batrachians and reptiles of Wabash co., W. O. Wallace. 52. On the occurrence of the whistling swan (*Olor columbianus*) in Wabash county, A. B. Ulrey. 53. Birds of Wabash county, A. B. Ulrey and O. W. Wallace. 54. Birds observed in the Sawtooth mountains, B. W. Evermann and J. T. Scovell. 55. Ani-

mal parasites collected in the state during the year 1894, A. W. Bitting. 56. Angling in the St. Lawrence and Lake Ontario, Barton W. Evermann. 57. Indiana mammals, Amos W. Butler. 58. Mimicry in fishes, W. J. Moenkhaus. 59. Variation in Leuciscus, C. H. Eigenmann. 60. The redfish of the Idaho lakes, B. W. Evermann and J. T. Scovell. 61. Observations upon some Oklahloma plants, E. W. Olive. 62. Rediscovery of Hoy's white fish or moon-eye (*Argyrosoma hoyi*), Barton W. Evermann. 63. Saxifragaceæa of Indiana, Stanley Coulter. 64. The range of the blue ash, W. P. Shannon. 65. Plant products of the U. S. Pharmacopœa (1890), John S. Wright. 66. Noteworthy Indiana phanerogams, Stanley Coulter. 67. Methods of infiltrating and straining *in toto* the heads of Vernonia, E. H. Heacock. 68. Embryology of the Ranunculaceæ, D. M. Mottier. 69. Certain chemical features in the seeds of Plantago virginiana and P. patagonica, Alida M. Cunningham. 70. Root system of Pogonia, M. B. Thomas. 71. Salt-rising bread, Katherine E. Golden. 72. An increasing pear disease in Indiana, L. M. Underwood. 73. Notes on the Florideæ, Geo. W. Martin. 74. Measurement of strains induced in plant curvatures, D. T. MacDougal. *75. The stomates of Cycas, Edgar W. Olive. 76. The buckeye canoe of 1840, W. P. Shannon. 77. Embryo-sac of Jeffersonia diphylla, Frank M. Andrews. 78. Cell structure of Cyanophyceæ, Geo. W. Martin. 79. Some notes on the amoeba, A. J. Bigney. 80. Variations of Polyporus lucidus, L. M. Underwood. 81. Preliminary account of the development of Etheostoma cœruleum, A. B. Ulrey. 82. Embryology of the Cupuliferæ, D. W. Mottier. 83. Embryology of the frog, A. J. Bigney. 84. Variation in Etheostoma, W. J. Moenkhaus. 85. Blood corpuscles of very young human embryo, D. W. Dennis. 86. Poisonous influences of some species of Cypripedium, D. T. MacDougal. 87. Development of sexual organs of Cymatogaster, C. H. Eigenmann. 88. The vegetation house as an aid in research, J. C. Arthur. 89. The proposed new systematic botany of North America, L. M. Underwood.

The officers elected for the ensuing year are: President, A. W. Butler, Brookville, Ind.; Vice-President, Stanley Coulter, La Fayette, Ind.; Secretary, John S. Wright, care of Eli Lilly and Co., Indianapolis, Ind.; Assistant Secretary, A. J. Bigney, Moore's Hill, Ind.; Treasurer, W. P. Shannon, Greensburg, Ind.

Iowa Academy of Science, met at Des Moines, Iowa, Decembe 27 and 28, 1894.—The officers of the Academy are: President, L. W. Andrews; First Vice-President, H. W. Norris; Second Vice-President,

C. R. Keyes; Secretary and Treasurer, Herbert Osborn; Ex-officio, L. W. Andrews, H. W. Norris, C. R. Keyes, Herbert Osborn; Elective, C. C. Nutting, M. F. Arey, W. S. Hendrixson; Librarian, C. R. Keyes.

The following papers were read: 9 A. M., Business Session of Council. 10 A. M., J. E. Todd and Foster Bain: 1. Inter-Lœsial Till near Sioux City; H. Foster Bain: 2. Pre-Glacial Elevation of Iowa; 3. The Central Iowa Section of the Mississippian Series; Charles R. Keyes: 4. Secular Decay of Granitic Rocks; 5. Structure of Paleozoic Echinoids; 6. Opinions Concerning the Age of the Sioux Quartzite; 7. Illustrations of Glacial Planing in Iowa; Arthur J. Jones: 8. Record of the Grinnell Deep Boring; 9. The Topaz Crystals of Thomas Mountain, Utah; A. G. Leonard: 10. The Lansing Lead Mines; F. M. Fultz: 11. How Old is the Mississippi? 12. On the Formation of the Flint Beds of the Burlington Limestones; 13. Coincidence of Present and Pre-glacial Drainage Systems in Extreme South-eastern Iowa; 14. Extensions of the Illinois Lobe of the Great Ice Sheet into Iowa; 15. Glacial Markings in South-eastern Iowa; S. Calvin: 16. The Maquoketa Shales in Delaware County, Iowa; 17. On Some Supposed Devonian Outliers in Delaware County, Iowa; William H. Norton: 18. On the Occurrence of *Megalomus canadense* in the LeClaire Beds at Port Bryon, Ill.; 19. Geological Section of Y. M. C. A. Artesian Well at Cedar Rapids, Iowa. 1 P. M. Report of Secretary and Treasurer. Report of Librarian. Report of Committees. 2 P. M. L. W. Andrews: 20. President's Address, Recent advances in the Theory of Solutions; C. C. Nutting: 21. Report of Committee on State Fauna; W. S. Franklin: 22. A New Method of Studying the Magnetic Properties of Iron; 23. On the Design of Transformers and Alternating Current Motors; 24. Note on a Phenomenon of Diffraction in Sound; W. S. Windle: 25. A. Kymograph and Its Use; A. C. Page: 26. The Volatility of Mercuric Chloride; N. E. Hansen: 27. Notes on Applying Pollen in the Cross-breeding of Plants. 9 A. M. Business Meeting. 9.30 A. M. C. F. Curtiss: 28. Changes that Occur in the Ripening of Indian Corn; G. E. Patrick: 29. Methods of Soil Analysis; Floyd Davis: 30. The Coal Supplies of Polk County, Iowa; D. B. Bisbee: 31. A Study of the Nitrogen Compounds of the Soil; W. H. Heileman: 32. A Chemical Study of Honey; A. A. Bennett: 33. Notes from the Chemical Laboratory, Iowa Agricultural College, 1894. 1.30 P. M. F. C. Stewart: 34. Effects of Heat on the Germination of Corn and Corn Smut; C. W. Mally: 35. A General Discussion of the Family Psyllidæ, with

Descriptions of New Species found at Ames, Iowa; Alice M. Beach: 36. New Species of Thripidæ; Herbert Osborn and F. Atwood Sirrine: 37. Studies of Migration of Certain Aphidideæ; F. Atwood Sirrine: 38. Description of a Species of Aphid Occurring on Carex; L. H. Pammel and Alice M. Beach: 39. The Pollination of Cucurbits—by Title; Alice M. Beach: 40. Notes on the Pollination of Some Flowers; L. H. Pammel: 41. On the Migration of Some Weeds; 42. Notes on Fungus Diseases of Plants at Ames, Iowa, 1894—by Title; 43. Notes on the Flora of Western Iowa—by Title; L. H. Pammel and O. H. Pagelsen: 44. The Action of Antiseptics and Disinfectants on Some Micro-organisms; L. H. Pammel and Robert Combs: 45. Notes on a Micrococcus which Colors Milk Blue; Emma Sirrine: 46. On the Structure of the Testa of Polygonaceæ: Cassie M. Bigelow: 47. A Study of the Glands in Hoptree (*Ptelea trifoliata*). T. Proctor Hall: 48. Graphic Representation of the Properties of the Elements; 49. Strata Passed in Sinking a Well at Jidney; Arthur C. Spencer: 50. Notes on the Minerals of Webster County; A. H. Conrad: 51. Some Notes on the Reptiles of Southeastern Iowa; 52. Bones Found in a Cave in Louisa County; 53. Mastodon and Mammoth Remains in Southeastern Iowa; E. H. Lonsdale: 54. Cement Clays in Iowa; 55. Conclusions as to the thickness of the Upper Carboniferous in Southwestern Iowa; R. Ellsworth Call: 56. A Geograpical and Synonymic Catalogue of the Unionidæ of the Mississippi Valley—by title.

The officers elected for 1895 are: H. W. Norris, President; C. R. Keyes, First Vice-President; T. Proctor Hall, Second Vice-President; Herbert Osborn, Secretary and Treasurer; H. Foster Bain, Librarian; N. E. Hansen, T. H. McBride, and W. H. Norton, elective members of the executive council.

Des Moines Academy of Science.—Officers elected; Floyd Davis, recently of the New Mexico School of Mines, as President and J. Christian Bay, State Bacteriologist, as Secretary.

Boston Society of Natural History.—Dec. 5th, the following papers were read: Mr. Outram Bangs: Color variation in the geographical races of the white-footed mouse. Specimens were shown. Dr. C. B. Davenport: Bibliographic reform. Dr. G. H. Parker: Migration of pigment in compound eyes. December 19, Prof. W. M. Davis: Notes on certain European rivers. Stereopticon views were shown. January 2d, Dr. J. Walter Fewkes: The new fire ceremony at Walpi. Dr. Fewkes illustrated the aboriginal methods of fire-making.

SAMUEL HENSHAW, *Secretary.*

The Biological Society of Washington.—December 15. The following communications were made: Mr. Charles T. Simpson, On the Validity of the Genus *Margaritana*. Prof. C. V. Riley, Some Interesting Results of Injury to Tree. Dr. Erwin F. Smith, The Last Phase of the Root Tubercle Disease. Jan. 12, 1895.—The paper of the evening was: The Plant Individual in the Light of Evolution, By Prof. L. H. Bailey of Cornell University. FREDERIC A. LUCAS, *Secretary.*